

What is claimed is:

1. A short arc type high pressure discharge lamp comprising:

5 a pair of electrodes disposed inside the discharge lamp and facing each other,

a light emitting portion containing more than 0.15 mg/mm<sup>3</sup> mercury, and

10 sealing portions that extend to both sides of the light emitting portion, seal part of electrodes respectively, and join the electrodes and metallic foils, wherein a cross-sectional view of the metallic foil is an approximately omega shape.

15 2. The short arc type high pressure discharge lamp according to claim 1, wherein in a joint portion of at least one of the electrodes and one of the metallic foils, there are at least two welding traces welded from a width direction of the one of metallic foils.

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3. A method of welding an electrode and a metallic foil, comprising steps of:

25 preparing a metallic foil having a curved surface portion wherein a cross-sectional view of the metallic foil is an approximately omega shape,

placing the electrode in the curved surface, and

welding from a width direction of the metallic foil.

4. A short arc type high pressure discharge lamp having an electrode assembly made by the method according to
- 5 claim 3.